IMPLANTABLE ELECTRIC LEAD AND ELECTRICAL COUPLING

Abstract of the Invention

An electrical lead in which a transitional coil conductor near a proximal end of the lead is electrically connected to a wire conductor distal of the coil conductor. The transitional coil is connected to an electrical connector at the proximal end of the lead. The electrical connector may be a standard ring and pin connector such as an IS-1 standard electrical connector often used in implantable medical devices. A second coil conductor runs substantially the entire length of the lead from its proximal to its distal end. The transitional coil is connected to the wire conductor through a coupling. The coupling includes a channel configured to receive the second coil conductor to allow it to run through the coupling. The coupling further includes a coil receiver configured to receive the distal end of the transitional coil to hold it in electrical contact with the electrically conductive body of the coupling. The coupling also includes a connector sleeve receiver, which receives a connector sleeve that is attached to and in electrical contact with a proximal end of the wire conductor. The wire conductor is thereby held in electrical contact with the connector at the proximal end of the lead through the transitional coil and the coupling. Alternative embodiments may include multiple coil conductors held in electrical contact with multiple wire conductors through multiple couplings.